

## INTERNATIONAL SEARCH REPORT

 International application No.  
 PCT/JP02/10687

## A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl<sup>7</sup> C07C217/52, 213/00, 213/02, 215/42

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

 Minimum documentation searched (classification system followed by classification symbols)  
 Int.Cl<sup>7</sup> C07C217/00, 213/00, 215/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

 Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
 REGISTRY (STN), CA (STN)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	EP 260121 A2 (Takeda Chemical Industries), 16 March, 1988 (16.03.88), & JP 63-246361 A & JP 63-295526 A & US 4898986 A	1-7
Y	EP 240175 A1 (Takeda Chemical Industries), 07 October, 1987 (07.10.87), & JP 63-10740 A & JP 63-119438 A & US 4824943 A	1-7
Y	Robert J. FERRIER et al., "Functionalized carbocycles from carbohydrates. Part 12.", Carbohydrate Research, 1990, Vol.205, pages 283 to 291	1-7

☐ Further documents are listed in the continuation of Box C.
 ☐ See patent family annex.

* Special categories of cited documents:	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier document but published on or after the international filing date	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

 Date of the actual completion of the international search  
 07 January, 2003 (07.01.03)

 Date of mailing of the international search report  
 28 January, 2003 (28.01.03)

 Name and mailing address of the ISA/  
 Japanese Patent Office

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